

(19)



JAPANESE PATENT OFFICE

## PATENT ABSTRACTS OF JAPAN

(11) Publication number: **06173872 A**(43) Date of publication of application: **21.06.94**

(51) Int. Cl.

**F04C 18/16**  
**F04C 29/00**  
**F04C 29/02**

(21) Application number: **04323987**(22) Date of filing: **03.12.92**(71) Applicant: **HITACHI LTD**

(72) Inventor: **YAMAZAKI NORIYUKI**  
**NOZAWA SHIGEKAZU**  
**URASHIN MASAYUKI**  
**NAGATA KIMIO**

(54) **SCREW COMPRESSOR**

## (57) Abstract:

**PURPOSE:** To enable a pump casing to be used in common for improving operability irrespective of stepwise/continuous capacity control by permitting an oil pressure supply and discharge path and respective bypass paths to the high or low pressure side for sliding stepwise or continuously a piston to communicate to a cylinder.

**CONSTITUTION:** In the case of stepwise capacity control for example, while the supply and discharge of oil to a cylinder 14 in a casing 1 are performed through respective electromagnetic valves 24-26 and capillary tube 32 by respective oil paths 33-35, a bypass path 36 to the high pressure side is adapted to communicate to one end of a cylinder 14. On the other hand, the oil path 38 to the cylinder 14 and a bypass path 44 to the low pressure side are respectively closed by respective flanges 46, 47. When a slide valve 11 is moved to the left end, 100% load running is permitted and when moved to the right end, the minimum load running is permitted. Then, the compressed capacity is determined by the positions of the respective oil paths 33-55 and the respective stages of the minimum load, 50% load, 75%

load and 100% load are distinguished from each other for example.

COPYRIGHT: (C)1994,JPO&amp;Japio

